

2016 NIST Time and Frequency Seminar

Tuesday, June 7

Time	Speaker and Title
8:00-8:45	Registration and check-in
8:45-9:00	Announcements and introductions
9:00-9:40	<i>Chris Oates:</i> (CH1) Assessment of Time, Timekeeping and Time Distribution
9:40-10:10	<i>John Vig:</i> (CH2) Quartz Crystal Resonators and Oscillators
10:10-10:30	Break
10:30-11:00	<i>John Vig:</i> (CH2) Quartz Crystal Resonators and Oscillators
11:00-12:00	<i>David Allan:</i> (CH3) Introduction to Time Domain Measurement Standards
12:00-1:30	Lunch
1:30-3:00	<i>David Allan:</i> (CH4) Time-Domain and Frequency-Domain Representations with Some Applications
3:00-3:20	Break
3:20-4:20	<i>Jeff Sherman:</i> (CH5) Time Domain Analysis, Part II
4:20-5:00	<i>Mike Lombardi:</i> (CH6) Traceability and Measurement Uncertainty

Wednesday, June 8

Time	Speaker and Title
8:30-8:45	Announcements
8:45-10:15	<i>Craig Nelson:</i> (CH7) Techniques of State-of-the-Art PM and AM Noise Measurements
10:15-10:35	Break
10:35-11:15	<i>Sam Stein:</i> (CH8) Direct Digital Measurement of Precision Oscillators
11:15-12:00	<i>Archita Hati:</i> (CH9) Vibration-Induced Phase Noise: Oscillators and Non-Oscillatory Components
12:00-1:15	Lunch
1:15-2:20	<i>Andrew Novick:</i> (CH10) Basic Measurements of Time and Frequency
2:20-2:45	Break
2:45-4:00	<i>Archita Hati:</i> (CH12) Phase Noise Measurement Demonstration
4:00-5:00	Hands-on Tests and Noise Measurements
6:00	Dinner at Hotel Boulderado

Thursday, June 9

Time	Speaker and Title
8:00-8:15	Questions and Answers
8:15-9:00	<i>Elizabeth Donley:</i> (CH13) Atomic Frequency Standards
9:00-9:50	<i>Yaroslav Dudin:</i> (CH14) Current and Next-Generation Cs Fountains at NIST
9:50-10:30	<i>Svenja Knappe:</i> (CH15) Chip-Scale Atomic Sensors and Clocks
10:30-10:40	Break
10:40-11:30	<i>Lora Nugent-Glandorf:</i> (CH16) Optical Frequency Combs
11:30-12:00	<i>Josue Davila Rodriguez:</i> (CH17) High-Speed Photodetection
12:00-1:00	Lunch
1:00-1:50	<i>Scott Papp:</i> (CH18) Chip-Scale Optical Frequency Combs
1:50-2:50	<i>Luke Winternitz:</i> (CH19) Global Navigation Satellite Systems (GNSS) and How They Work
2:50-3:30	<i>Victor Zhang:</i> (CH20) Time and Frequency Transfer Using Two-Way and GPS
3:30-3:40	Break
3:40-4:30	<i>Neil Ashby:</i> (CH21) Geolocation using TDOA and FDOA with Precision Clocks and Oscillators
4:30-5:00	<i>David Howe:</i> (CH22) NIST Calibration Services

*Courtesy tour of Microsemi (5:30-7:30pm)

Friday, June 10

Time	Speaker and Title
8:45-9:30	<i>Dave Leibrandt:</i> (CH23) Trapped Ion Optical Clocks and Quantum Logic Spectroscopy
9:30-10:15	<i>Andrew Ludlow:</i> (CH24) Optical Lattice Clocks
10:15-10:30	Break
10:30-11:15	<i>Laura Sinclair:</i> (CH25) Optical Frequency Transfer over Fiber and Air
11:15-12:00	<i>Fabio Da Silva:</i> (CH26) Advanced LTE Positioning
12:00-12:15	Conclusions and Discussion
2:00-4:00	Separate group tours of NIST: Time Scale (Judah Levine), Josephson Junction Voltage Standard (Charles Burroughs), Electric Field Strength Measurements Using Rydberg States (Chris Holloway)

Seminar Webpage:

<http://tf.boulder.nist.gov/seminars/TFSEminar2016/Seminar2016.html>